

What is claimed is:

- 1) A fire hydrant system, relating to protecting the purity of potable water systems from contamination from frangible-barrel-fire-hydrant use, comprising, in combination:
 - a) at least one frangible barrel fire hydrant comprising
 - i) at least one upper barrel body
 - ii) at least one lower barrel body,
 - iii) at least one frangible plane between said at least one upper barrel body and said at least one lower barrel body,
 - iv) at least one water outlet chamber, extending from said at least one upper barrel body, and
 - v) at least one water entry into said at least one water outlet chamber from said at least one upper barrel body;
 - b) wherein said at least one upper barrel body and said at least one water outlet chamber together comprise exactly one unitary-construction housing;
 - c) at least one water-flowable channel extending from within said at least one upper barrel body, through said at least one water entry, and through said at least one water outlet chamber; and
 - d) at least one backflow preventer situate within said exactly one unitary-construction housing;
 - e) wherein said at least one backflow preventer is adapted to assist prevention of backflow of water through said at least one entry.
- 2) The fire hydrant system according to Claim 1 wherein said at least one backflow preventer comprises at least one valve disc.
- 3) The fire hydrant system according to Claim 2 wherein said at least one valve disc of said at least one backflow preventer, when closed, is located adjacent said at least one water entry.
- 4) The fire hydrant system according to Claim 1 wherein said at least one water outlet chamber comprises at least one fire hose connectable water outlet.
- 5) The fire hydrant system according to Claim 4 wherein said at least one water outlet chamber comprises at least two fire hose connectable water outlets.
- 6) The fire hydrant system according to Claim 5 wherein said at least two hose connectable water outlets comprise water outlets adapted to at least two different hose diameters.
- 7) The fire hydrant system according to Claim 1 wherein said at least one backflow preventer is located adjacent said at least one water entry.

- 8) A fire hydrant system, relating to protecting the purity of potable water systems from contamination from frangible-barrel-fire-hydrant use, comprising, in combination:
 - a) at least one frangible barrel fire hydrant comprising
 - i) at least one upper barrel body
 - ii) at least one lower barrel body,
 - iii) at least one frangible plane between said at least one upper barrel body and said at least one lower barrel body,
 - iv) at least one water outlet chamber, extending from said at least one upper barrel body, and
 - b) at least one water entry into said at least one water outlet chamber from said at least one upper barrel body;
 - c) at least one water-flowable channel extending from within said at least one upper barrel body, through said at least one water entry, and through said at least one water outlet chamber; and
 - d) at least one backflow preventer;
 - e) wherein said at least one backflow preventer is adapted to assist prevention of backflow of water through said at least one entry; and
 - f) wherein said at least one backflow preventer is located substantially adjacent said at least one water entry.
- 9) The fire hydrant system according to Claim 8 wherein said at least one backflow preventer comprises at least one valve disc.
- 10) The fire hydrant system according to Claim 9 wherein said at least one valve disc of said at least one backflow preventer, when closed, is located adjacent said at least one water entry.
- 11) The fire hydrant system according to Claim 8 wherein said at least one water outlet chamber comprises at least one fire hose connectable water outlet.
- 12) The fire hydrant system according to Claim 11 wherein said at least one water outlet chamber comprises at least two fire hose connectable water outlets.
- 13) The fire hydrant system according to Claim 12 wherein said at least fire two hose connectable water outlets comprise water outlets adapted to at least two different fire hose diameters.

- 14) A fire hydrant system, relating to protecting the purity of potable water systems from contamination from use of at least one frangible barrel fire hydrant having at least one upper barrel body, at least one lower barrel body, and at least one frangible plane between the at least one upper barrel body and the at least one lower barrel body, said fire hydrant system comprising, in combination:
- a) the at least one upper barrel body;
 - b) at least one water outlet chamber, extending from said at least one upper barrel body, and
 - c) at least one water entry into said at least one water outlet chamber from said at least one upper barrel body;
 - d) wherein said at least one upper barrel body and said at least one water outlet chamber together comprise exactly one unitary-construction housing;
 - e) at least one water-flowable channel extending from within said at least one upper barrel body, through said at least one water entry, and through said at least one water outlet chamber; and
 - f) at least one backflow preventer situate within said exactly one unitary-construction housing;
 - g) wherein said at least one backflow preventer is adapted to assist prevention of backflow of water through said at least one entry.
- 15) The fire hydrant system according to Claim 14 wherein said at least one backflow preventer comprises at least one valve disc.
- 16) The fire hydrant system according to Claim 15 wherein said at least one valve disc of said at least one backflow preventer, when closed, is located adjacent said at least one water entry.
- 17) The fire hydrant system according to Claim 14 wherein said at least one water outlet chamber comprises at least one fire hose connectable water outlet.
- 18) The fire hydrant system according to Claim 17 wherein said at least one water outlet chamber comprises at least two fire hose connectable water outlets.
- 19) The fire hydrant system according to Claim 18 wherein said at least two fire hose connectable water outlets comprise water outlets adapted to at least two different fire hose diameters.
- 20) The fire hydrant system according to Claim 14 wherein said at least one backflow preventer is located adjacent said at least one water entry.

- 21) A fire hydrant system, relating to protecting the purity of potable water systems from contamination from use of at least one frangible barrel fire hydrant having at least one upper barrel body, at least one lower barrel body, and at least one frangible plane between the at least one upper barrel body and the at least one lower barrel body, said fire hydrant system comprising, in combination:
- a) the at least one upper barrel body;
 - b) at least one water outlet chamber, extending from said at least one upper barrel body, and
 - c) at least one water entry into said at least one water outlet chamber from said at least one upper barrel body;
 - d) wherein said at least one upper barrel body and said at least one water outlet chamber together comprise exactly one unitary-construction housing;
 - e) at least one water-flowable channel extending from within said at least one upper barrel body, through said at least one water entry, and through said at least one water outlet chamber; and
 - f) at least one backflow preventer situate within said exactly one unitary-construction housing;
 - g) wherein said at least one backflow preventer is adapted to assist prevention of backflow of water through said at least one entry.
- 22) The fire hydrant system according to Claim 21 wherein said at least one backflow preventer comprises at least one valve disc.
- 23) The fire hydrant system according to Claim 22 wherein said at least one valve disc of said at least one backflow preventer, when closed, is located adjacent said at least one water entry.
- 24) The fire hydrant system according to Claim 21 wherein said at least one water outlet chamber comprises at least one fire hose connectable water outlet.
- 25) The fire hydrant system according to Claim 24 wherein said at least one water outlet chamber comprises at least two fire hose connectable water outlets.
- 26) The fire hydrant system according to Claim 25 wherein said at least two fire hose connectable water outlets comprise water outlets adapted to at least two different fire hose diameters.
- 27) The fire hydrant system according to Claim 21 wherein said at least one backflow preventer is located adjacent said at least one water entry.

- 28) A fire hydrant system, relating to protecting the purity of potable water systems from contamination from use of at least one frangible barrel fire hydrant having at least one upper barrel body, at least one lower barrel body, and at least one frangible plane between the at least one upper barrel body and the at least one lower barrel body, said fire hydrant system comprising, in combination:
- a) the at least one upper barrel body;
 - b) at least one water outlet chamber, extending from said at least one upper barrel body, and
 - c) at least one water entry into said at least one water outlet chamber from said at least one upper barrel body;
 - d) wherein said at least one upper barrel body and said at least one water outlet chamber together comprise at least one upper barrel structure;
 - e) at least one water-flowable channel extending from within said at least one upper barrel body, through said at least one water entry, and through said at least one water outlet chamber; and
 - f) at least one backflow preventer situate within said at least one upper barrel structure;
 - g) wherein said at least one backflow preventer is adapted to assist prevention of backflow of water through said at least one entry.
- 29) The fire hydrant system according to Claim 28 wherein said at least one backflow preventer comprises at least one valve disc.
- 30) The fire hydrant system according to Claim 29 wherein said at least one valve disc of said at least one backflow preventer, when closed, is located adjacent said at least one water entry.
- 31) The fire hydrant system according to Claim 28 wherein said at least one water outlet chamber comprises at least one fire hose connectable water outlet.
- 32) The fire hydrant system according to Claim 31 wherein said at least one water outlet chamber comprises at least two fire hose connectable water outlets.
- 33) The fire hydrant system according to Claim 32 wherein said at least two fire hose connectable water outlets comprise water outlets adapted to at least two different fire hose diameters.
- 34) The fire hydrant system according to Claim 28 wherein said at least one backflow preventer is located adjacent said at least one water entry.

- 35) At least one method, relating to protecting the purity of potable water systems from contamination from use of at least one frangible barrel fire hydrant having at least one upper barrel body, at least one lower barrel body, and at least one frangible plane between the at least one upper barrel body and the at least one lower barrel body, said at least one method comprising, in combination, the steps of:
- a) providing for identification of needs of at least one community potable-water system desiring fire-hydrant backflow-prevention protection;
 - b) providing for manufacture of at least one upper barrel structure comprising
 - i) at least one upper barrel body;
 - ii) at least one water outlet chamber, extending from such at least one upper barrel body,
 - iii) at least one water entry into such at least one water outlet chamber from such at least one upper barrel body,
 - iv) at least one water-flowable channel extending from within such at least one upper barrel body, through such at least one water entry, and through such at least one water outlet chamber, and
 - v) at least one backflow preventer situate within such at least one upper barrel structure;
 - vi) wherein such at least one backflow preventer is adapted to assist prevention of backflow of water through such at least one entry; and
 - c) providing for delivery of such at least one upper barrel structure, installable on the at least one lower barrel body, to such at least one community potable-water system.
- 36) The method according to Claim 35 further comprising the step of installing such at least one upper barrel structure within such at least one community potable-water system.

- 37) A fire hose system relating to a fire hydrant system, relating to protecting the purity of potable water systems from contamination from fire hoses used with fire hydrants, comprising, in combination:
- a) at least one water conduit having at least one water entry site and at least one water exit site;
 - b) wherein said at least one water entry site is adapted to be connected with at least one fire hydrant water exit; and
 - c) wherein said at least one water exit site is adapted to be connected with at least one fire-fighting hose; and
 - d) at least one backflow preventer located within said at least one water conduit;
 - e) wherein said at least one backflow preventer comprises exactly one check valve.